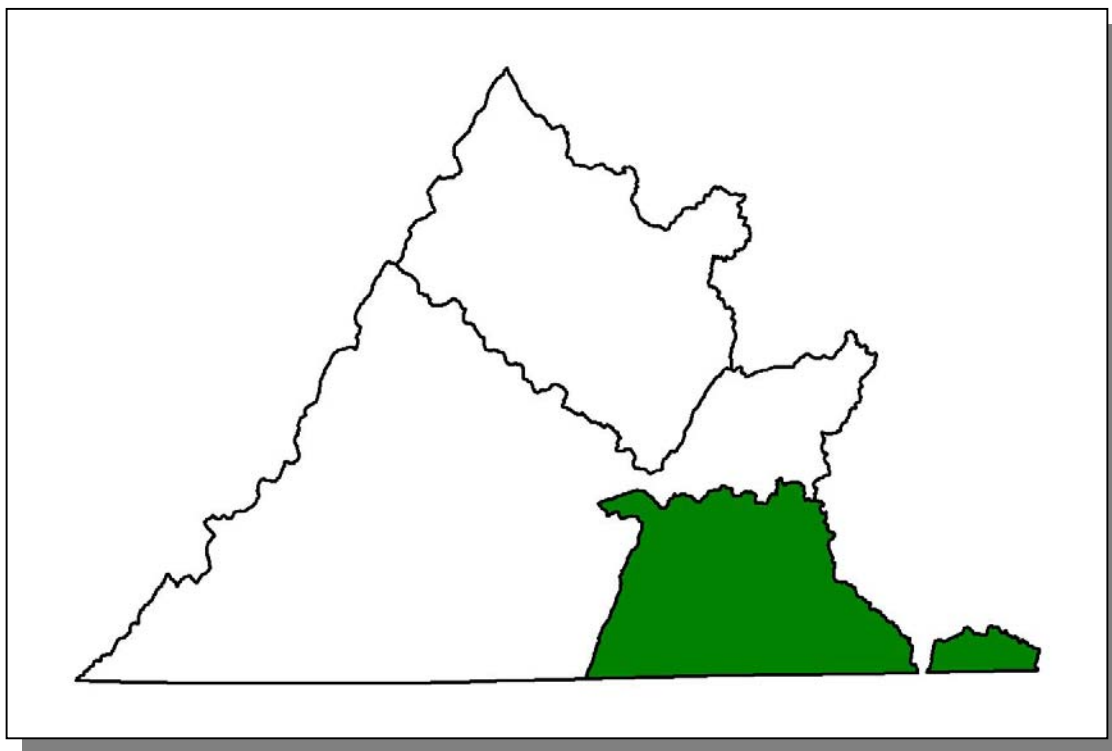


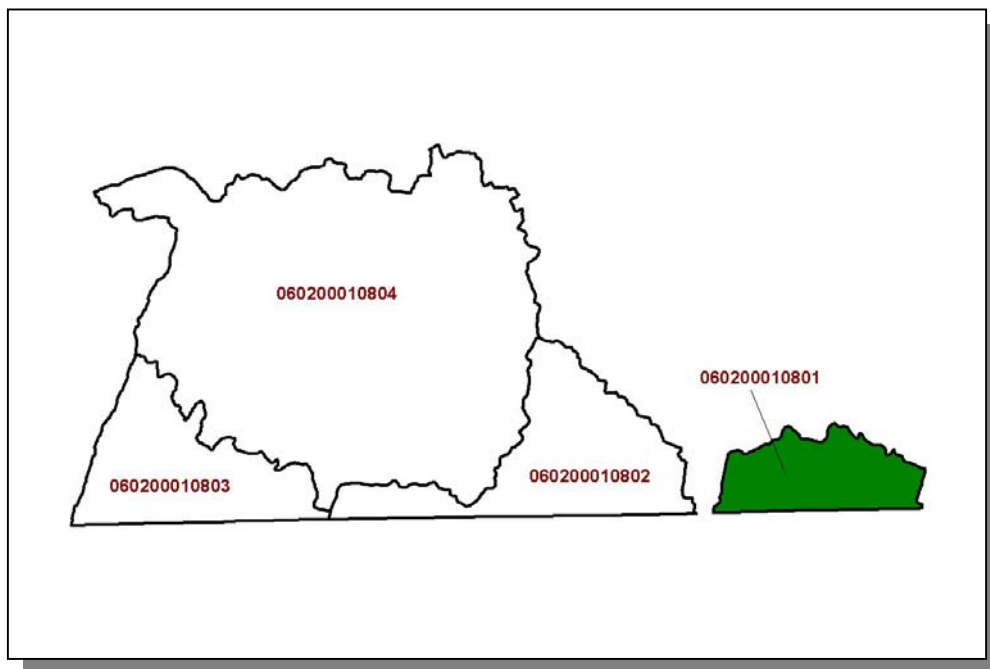
**4.2.C. 0602000108**



**Figure 4-85. Location of Subwatershed 0602000108.** All Group 4 Lower Tennessee River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

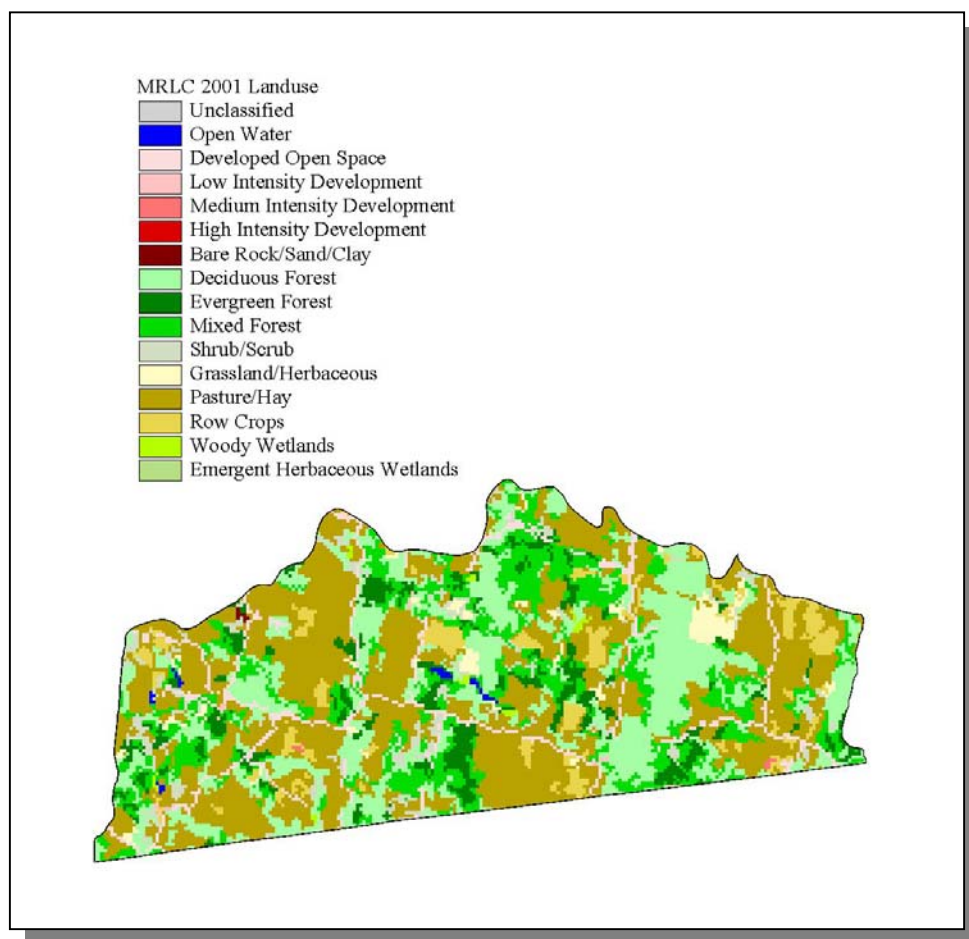
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**4.2.C.i. 060200010801 (East Chickamauga Creek).**



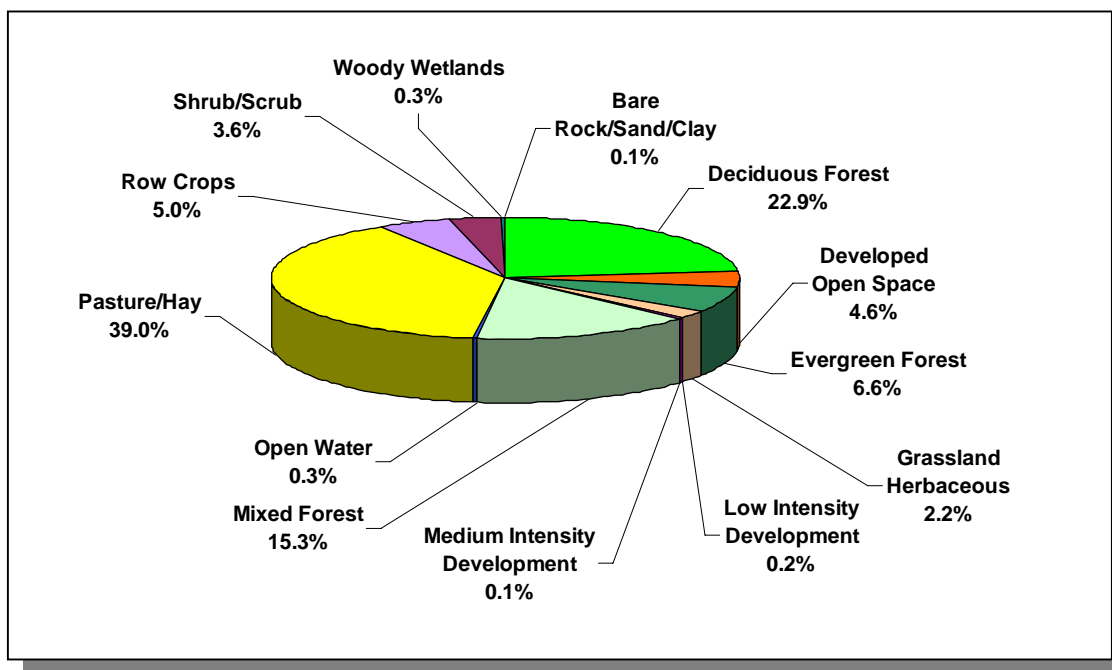
**Figure 4-86. Location of Subwatershed 060200010801.** All Group 4 Lower Tennessee River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

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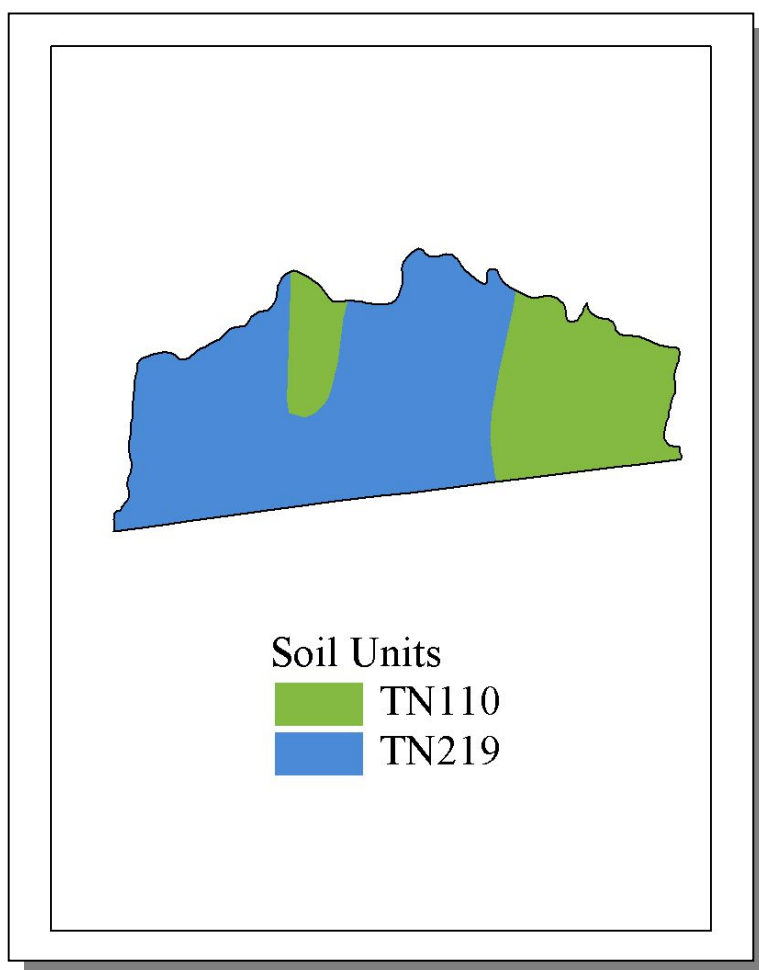
**Figure 4-87. Illustration of Land Use Distribution in Subwatershed 060200010801.**

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**Figure 4-88. Land Use Distribution in Subwatershed 060200010801.** More information is provided in Appendix IV.

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**Figure 4-89. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010801.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN110	0.00	B	2.22	4.96	Loam	0.31
TN219	0.00	C	1.35	4.95	Loam	0.33

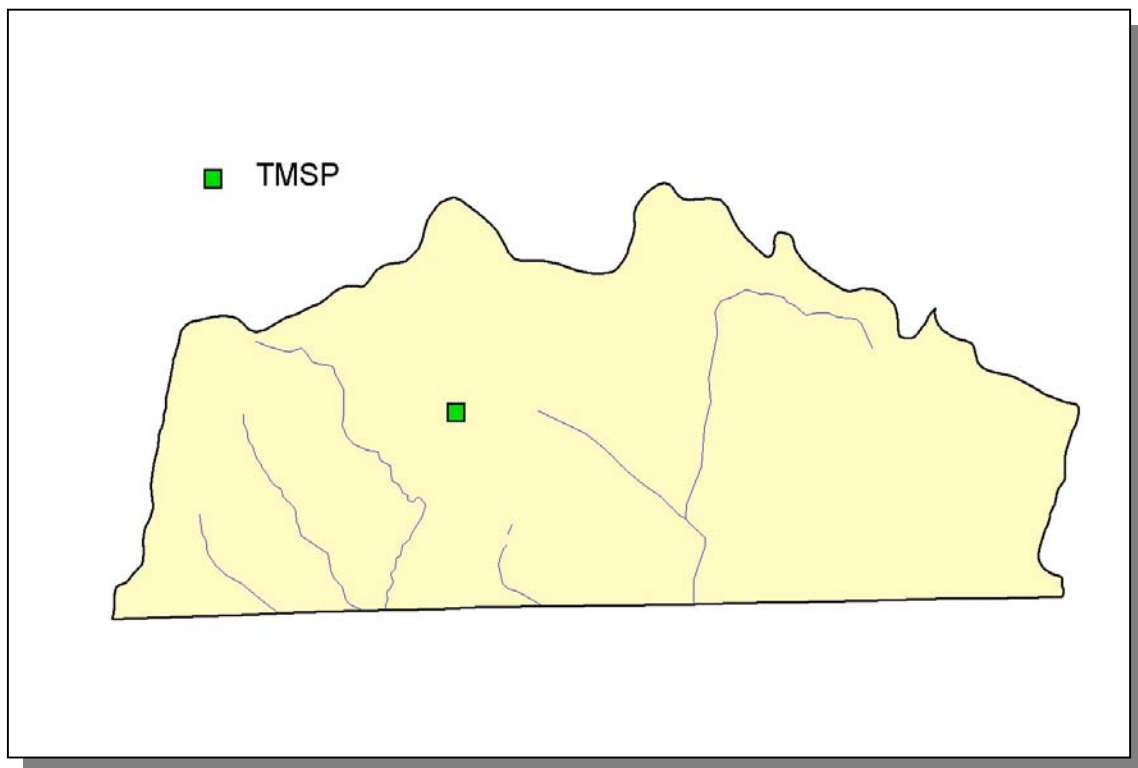
**Table 4-73. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010801.** The definition of "Hydrologic Group" is provided in Appendix IV.

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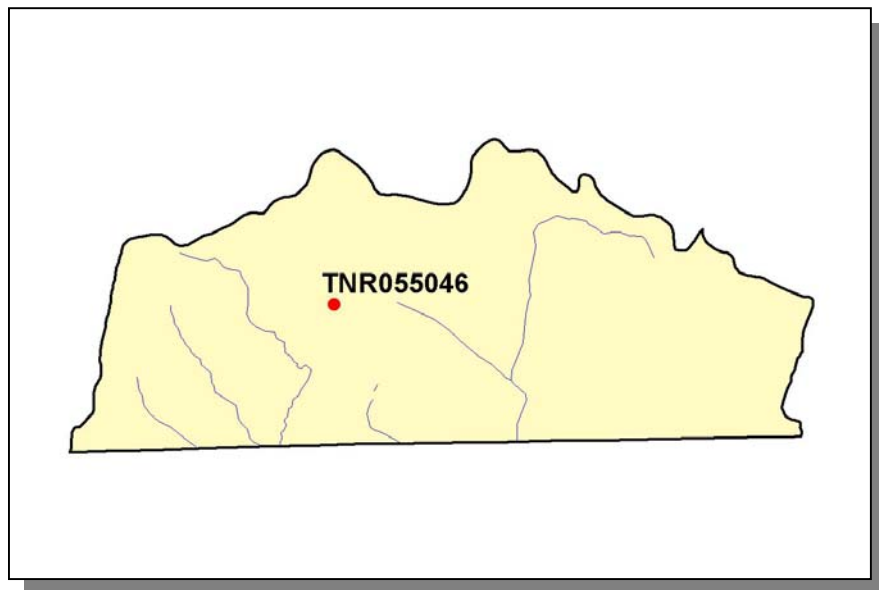
County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Bradley	73,712	80,800	87,965	0.23	170	187	203	19.4
Hamilton	285,536	294,865	307,896	0.67	1,912	1,975	2,062	7.8
<b>Total</b>	<b>359,248</b>	<b>375,665</b>	<b>395,861</b>		<b>2,082</b>	<b>2,162</b>	<b>2,265</b>	<b>8.8</b>

*Table 4-74. Population Estimates in Subwatershed 060200010801.*

**4.2.C.i.a. Point Source Contributions.**



**Figure 4-90. Location of Permits Issued in Subwatershed 060200010801.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-91. Location of TMSF Sites in Subwatershed 060200010801.** More information, including the names of facilities, is provided in Appendix IV.



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**4.2.C.i.b. Nonpoint Source Contributions.**

<b>LIVESTOCK (COUNTS)</b>						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
207	471	35	<5	248,802	25	<5

**Table 4-75. Summary of Livestock Count Estimates in Subwatershed 060200010801.**  
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

<b>LIVESTOCK COUNTS</b>							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Bradley	10,876	30,454	3,856	265,577	21,279,814	253	129
Hamilton	6,913	14,734	801	30	934,564	1,017	109

**Table 4-76. Summary of Livestock Count Estimates in Bradley and Hamilton Counties.**  
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

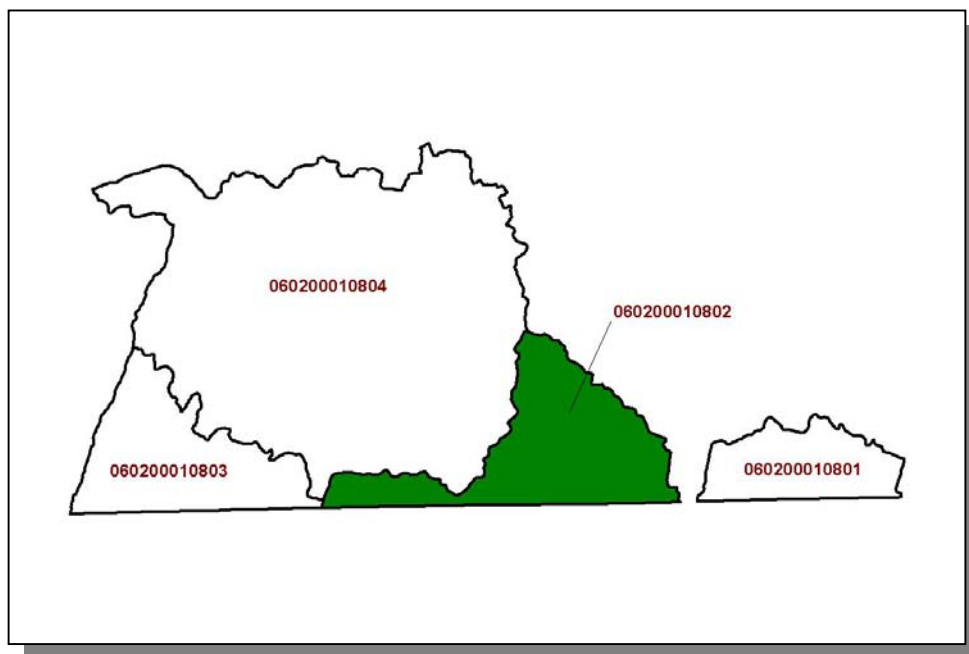
County	<b>INVENTORY</b>		<b>REMOVAL RATE</b>	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Bradley	92.5	92.5	8.2	18.1
Hamilton	210.7	210.7	2.2	6.0

**Table 4-77. Forest Acreage and Annual Removal Rates (1987-1994) in Bradley and Hamilton Counties.**

<b>CROPS</b>	<b>TONS/ACRE/YEAR</b>
Legumes (Pastureland)	0.07
Grass (Pastureland)	0.32
Grass (Hayland)	1.54
Legumes, Grass (Hayland)	0.19
Grass, Forbs, Legumes (Mixed Pasture)	0.38
Corn (Row Crops)	5.28
Soybeans (Row Crops)	7.38
Oats (Close-Grown Cropland)	3.13
Wheat (Close-Grown Cropland)	3.14
All Other Close-Grown Cropland	1.99
Other Cropland not Planted	0.48
Conservation Reserve Program Lands	0.27
Other Land in Farms	0.60
Farmsteads and Ranch Headquarters	0.46

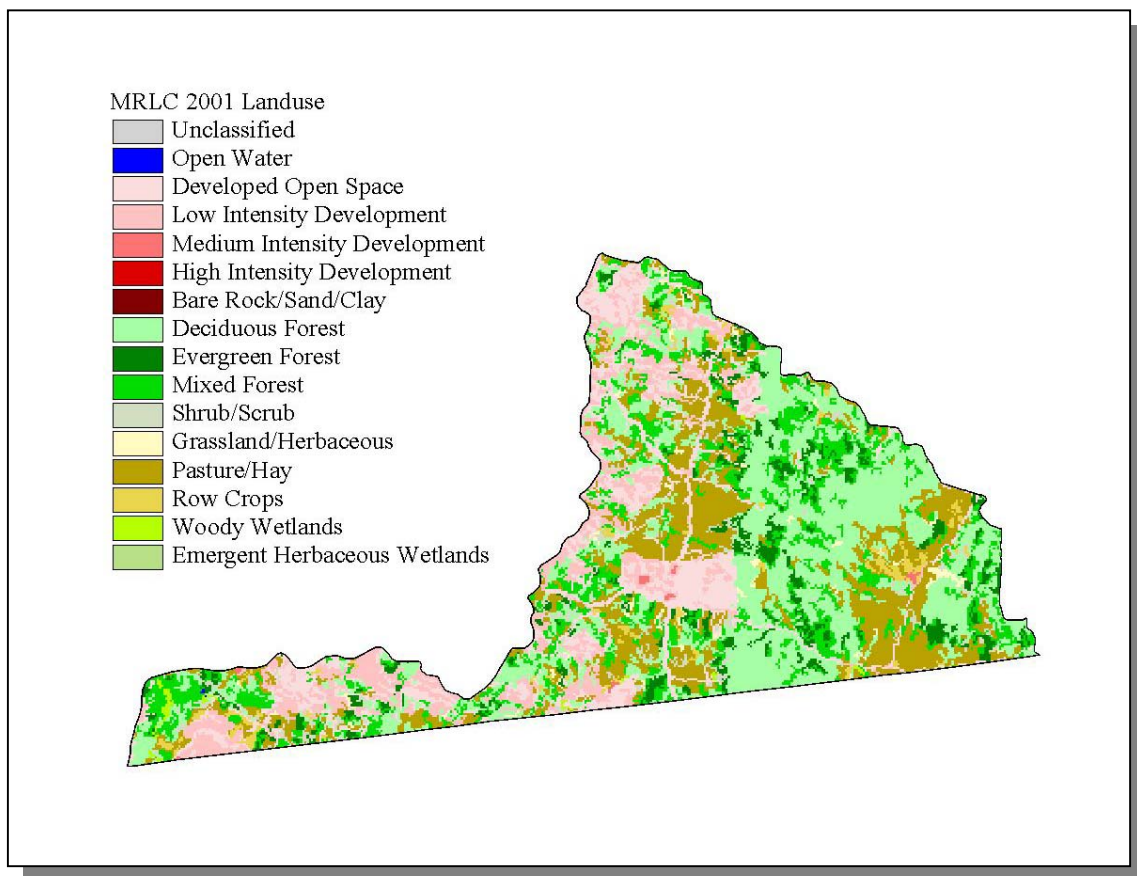
**Table 4-78. Annual Estimated Total Soil Loss in Subwatershed 060200010801.**

**4.2.C.ii.** 060200010802 (Little Chickamauga Creek).



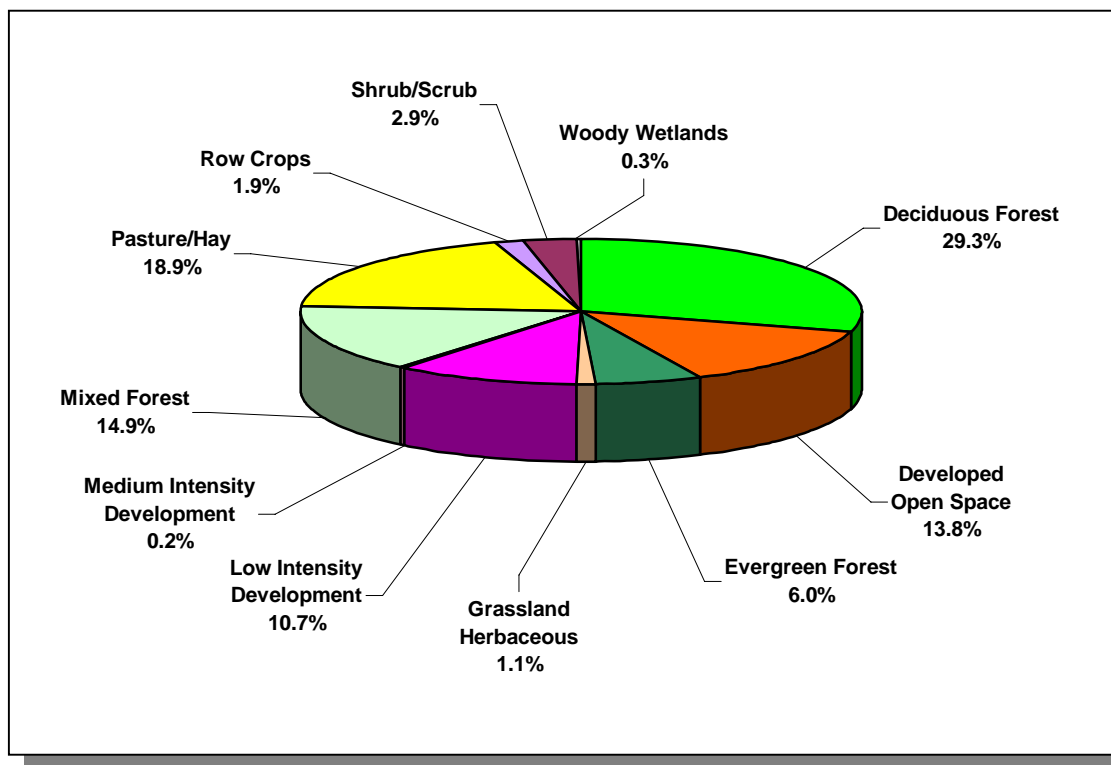
**Figure 4-92. Location of Subwatershed 060200010802.** All Group 4 Lower Tennessee River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

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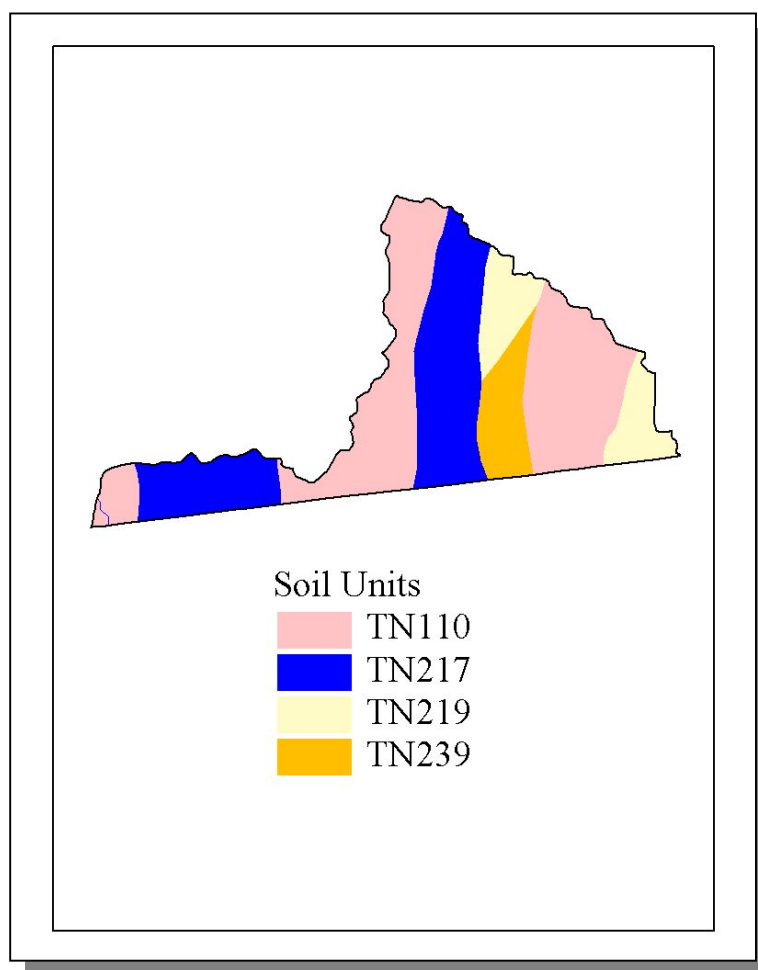
**Figure 4-93. Illustration of Land Use Distribution in Subwatershed 060200010802.**

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**Figure 4-94. Land Use Distribution in Subwatershed 060200010802.** More information is provided in Appendix IV.

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**Figure 4-95. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010802.**

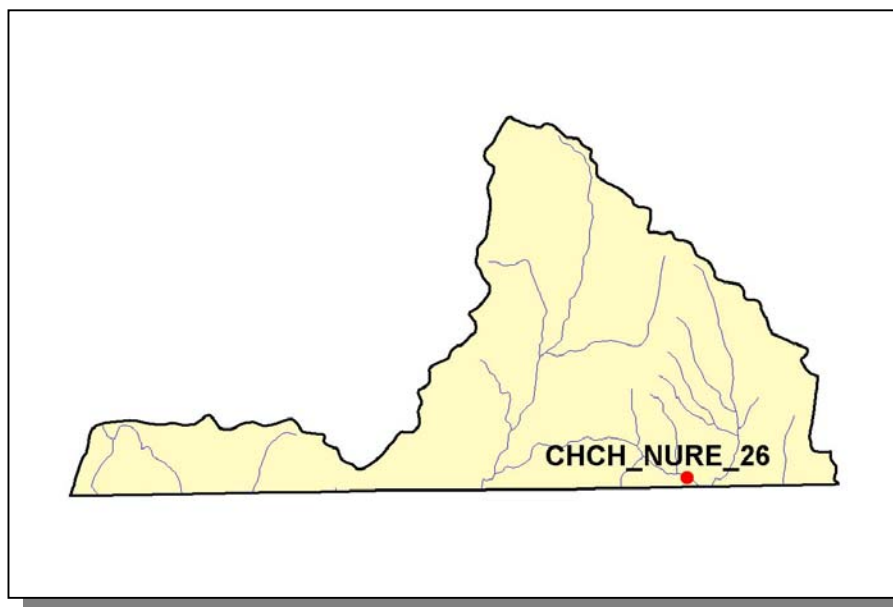
STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN110	0.00	B	2.22	4.96	Loam	0.31
TN217	0.00	C	2.34	5.32	Loam	0.35
TN219	0.00	C	1.35	4.95	Loam	0.33
TN239	2.00	C	2.94	4.86	Loam	0.22

**Table 4-79. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010802.** The definition of "Hydrologic Group" is provided in Appendix IV.

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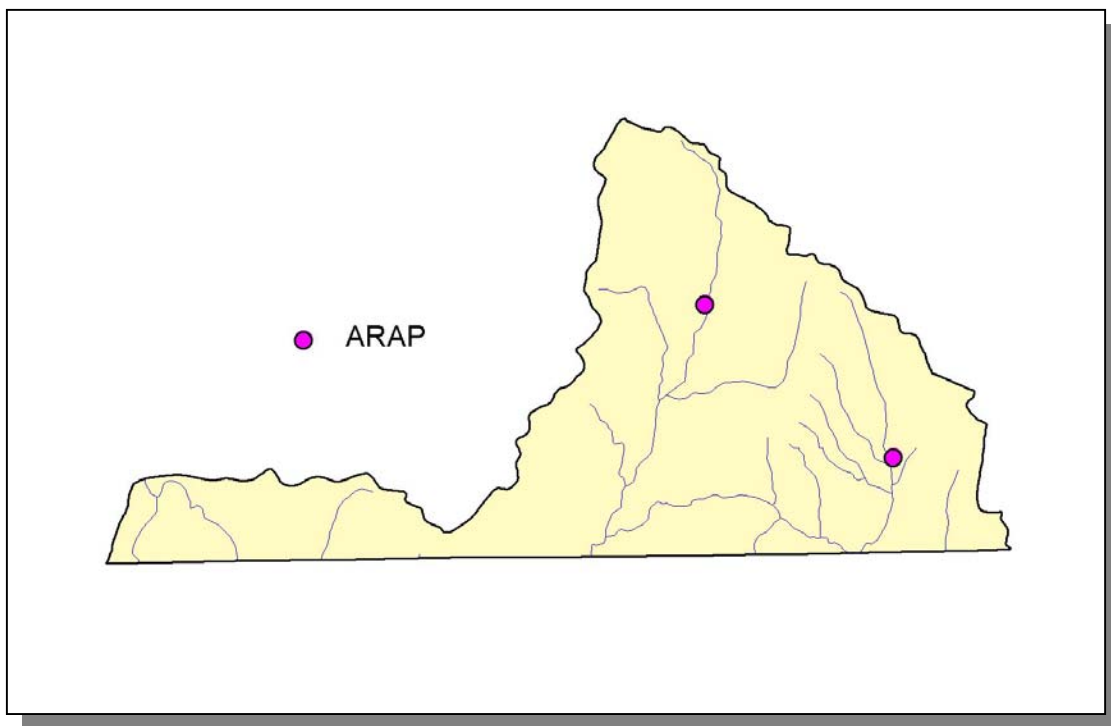
County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Hamilton	285,536	294,865	307,896	1.73	4,945	5,106	5,332	7.8

**Table 4-80. Population Estimates in Subwatershed 060200010802.**



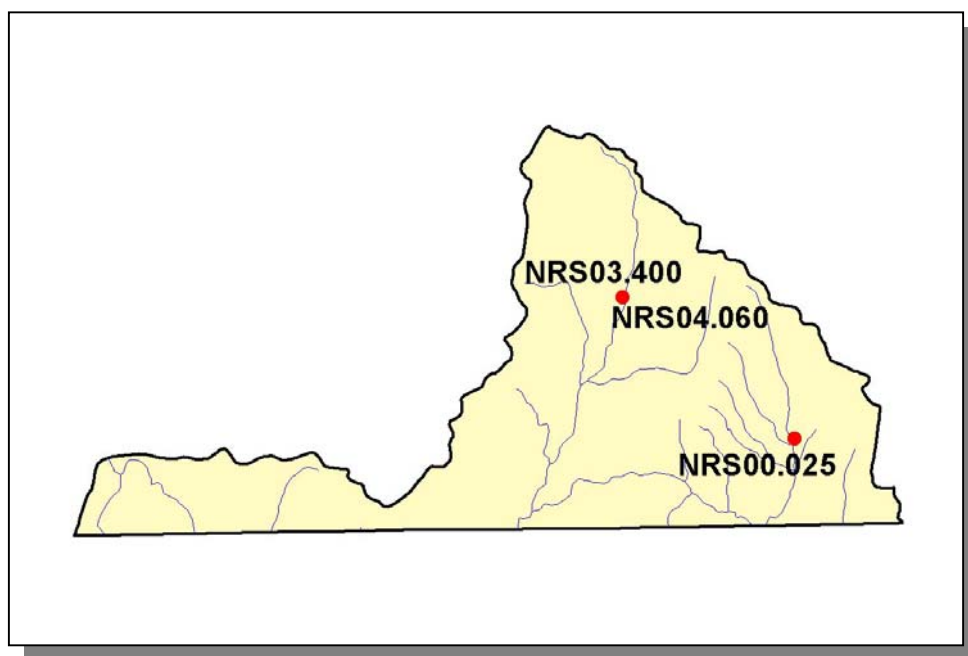
**Figure 4-96. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060200010802.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

**4.2.C.ii.a. Point Source Contributions.**



**Figure 4-97. Location of Permits Issued in Subwatershed 060200010802.** More information, including the names of facilities, is provided in Appendix IV.

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**Figure 4-98. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 060200010802. More information is provided in Appendix IV.**



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**4.2.C.ii.b. Nonpoint Source Contributions.**

<b>LIVESTOCK (COUNTS)</b>						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
238	507	28	<5	165,598	35	<5

**Table 4-81. Summary of Livestock Count Estimates in Subwatershed 060200010802.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

<b>LIVESTOCK COUNTS</b>							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Hamilton	6,913	14,734	801	30	934,564	1,017	109

**Table 4-82. Summary of Livestock Count Estimates in Hamilton County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

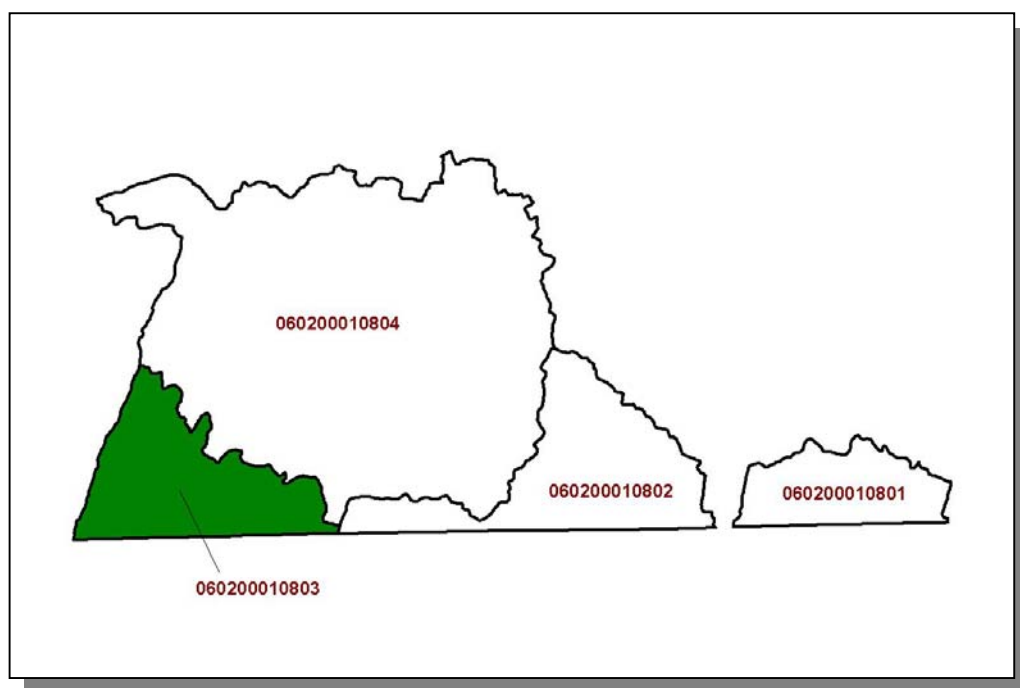
County	<b>INVENTORY</b>		<b>REMOVAL RATE</b>	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Hamilton	210.7	210.7	2.2	6.0

**Table 4-83. Forest Acreage and Annual Removal Rates (1987-1994) in Hamilton County.**

<b>CROPS</b>	<b>TONS/ACRE/YEAR</b>
Legumes (Pastureland)	0.07
Grass (Pastureland)	0.32
Grass (Hayland)	1.88
Legumes, Grass (Hayland)	0.20
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	5.28
Soybeans (Row Crops)	7.48
Oats (Close-Grown Cropland)	3.13
Wheat (Close-Grown Cropland)	3.14
All Other Close-Grown Cropland	1.99
Other Cropland not Planted	0.48
Other Land in Farms	0.30
Farmsteads and Ranch Headquarters	0.31

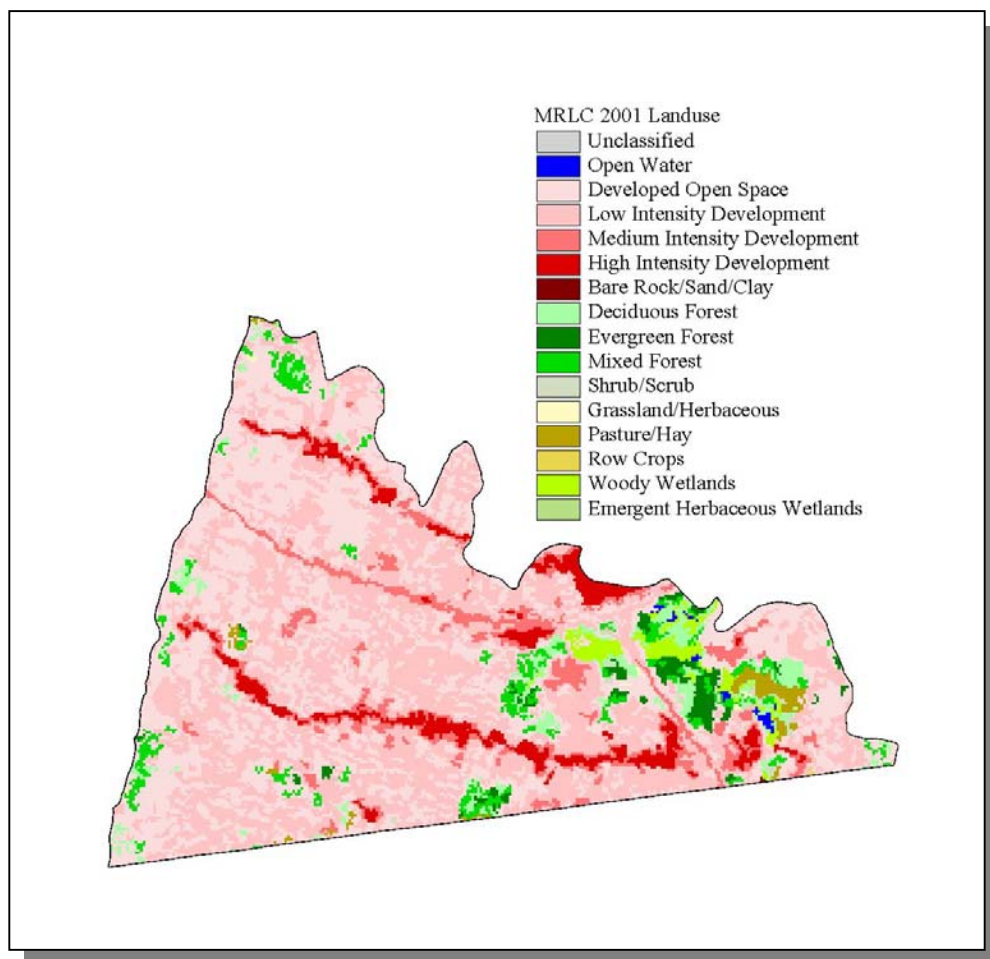
**Table 4-84. Annual Estimated Total Soil Loss in Subwatershed 060200010802.**

**4.2.C.iii. 060200010803 (West Chickamauga Creek).**



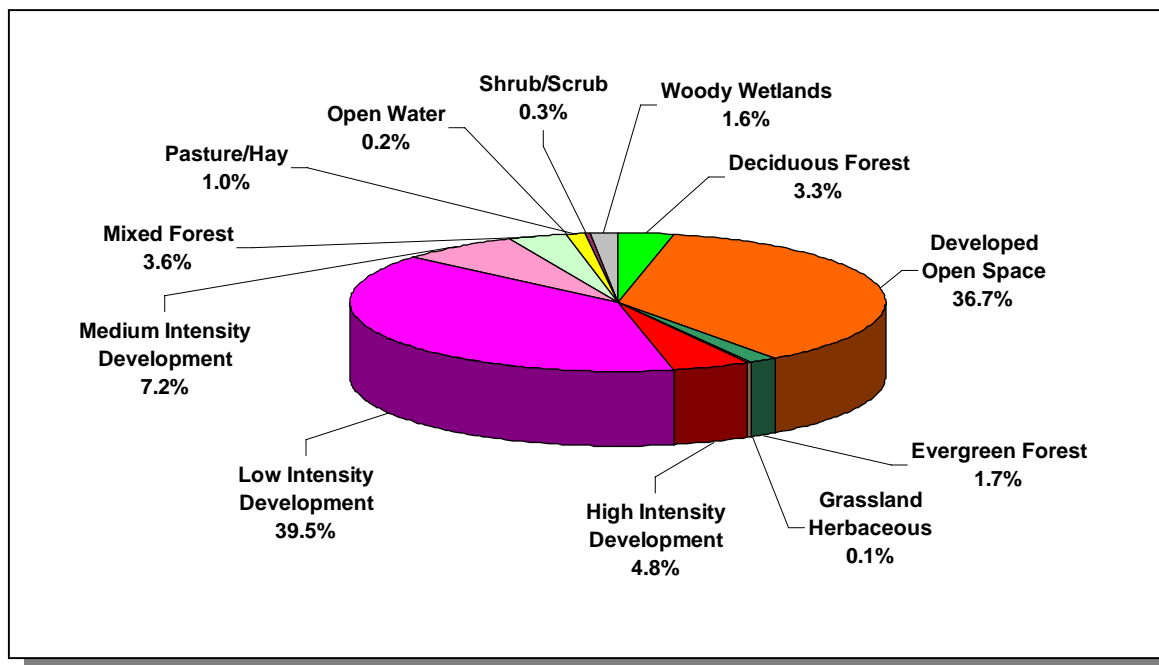
**Figure 4-99. Location of Subwatershed 060200010803.** All Group 4 Lower Tennessee River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

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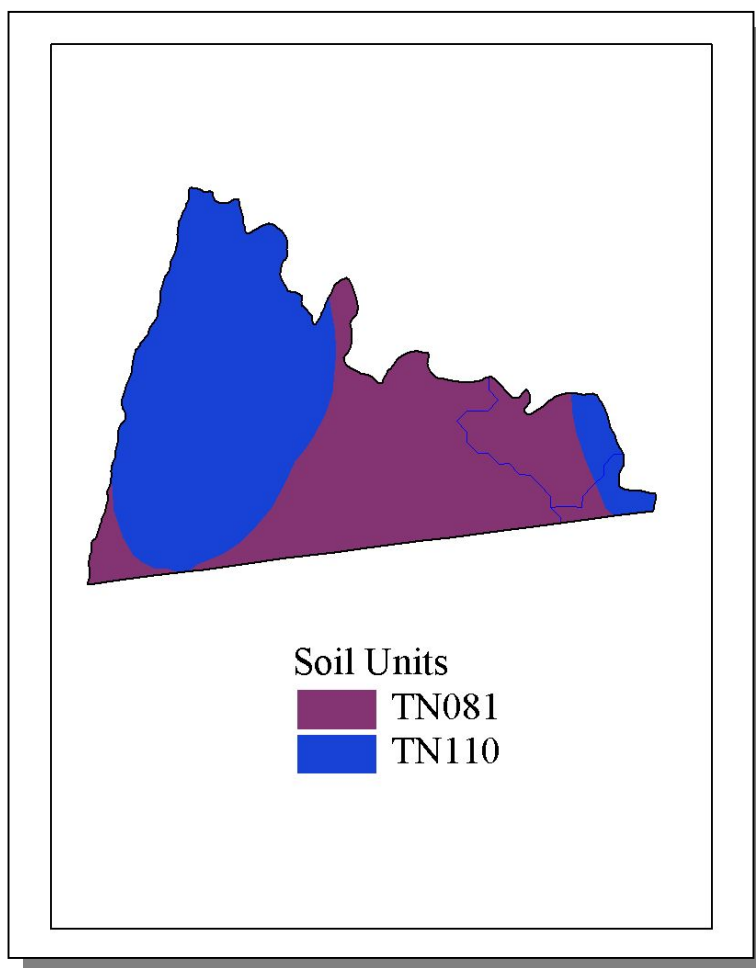
**Figure 4-100. Illustration of Land Use Distribution in Subwatershed 060200010803.**

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**Figure 4-101. Land Use Distribution in Subwatershed 060200010803.** More information is provided in Appendix IV.

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**Figure 4-102. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010803.**

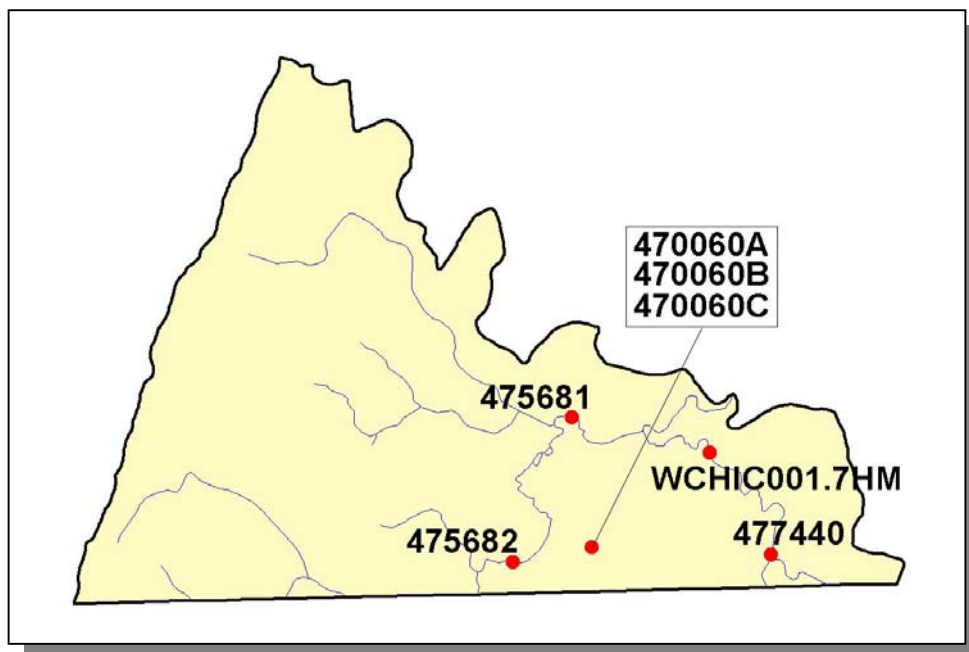
STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN081	5.00	C	1.41	5.48	Silty Loam	0.35
TN110	0.00	B	2.22	4.96	Loam	0.31

**Table 4-85. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010803.** The definition of "Hydrologic Group" is provided in Appendix IV.

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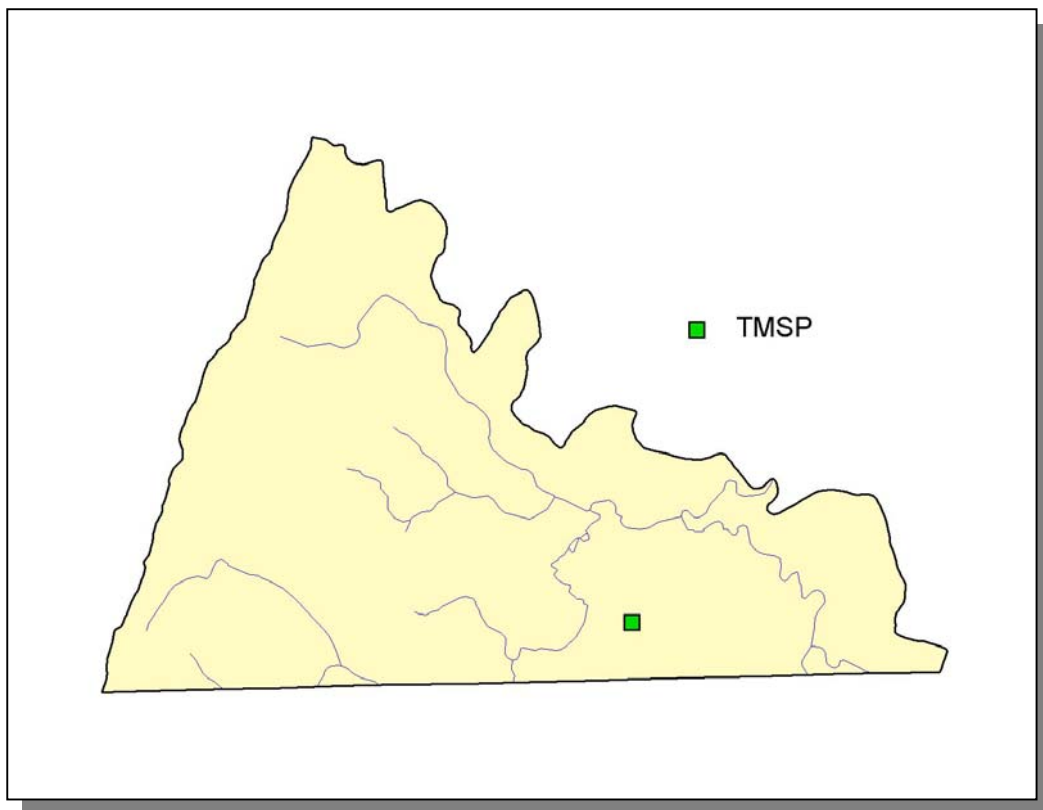
County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Hamilton	285,536	294,865	307,896	1.53	4,360	4,503	4,701	7.8

**Table 4-86. Population Estimates in Subwatershed 060200010803.**

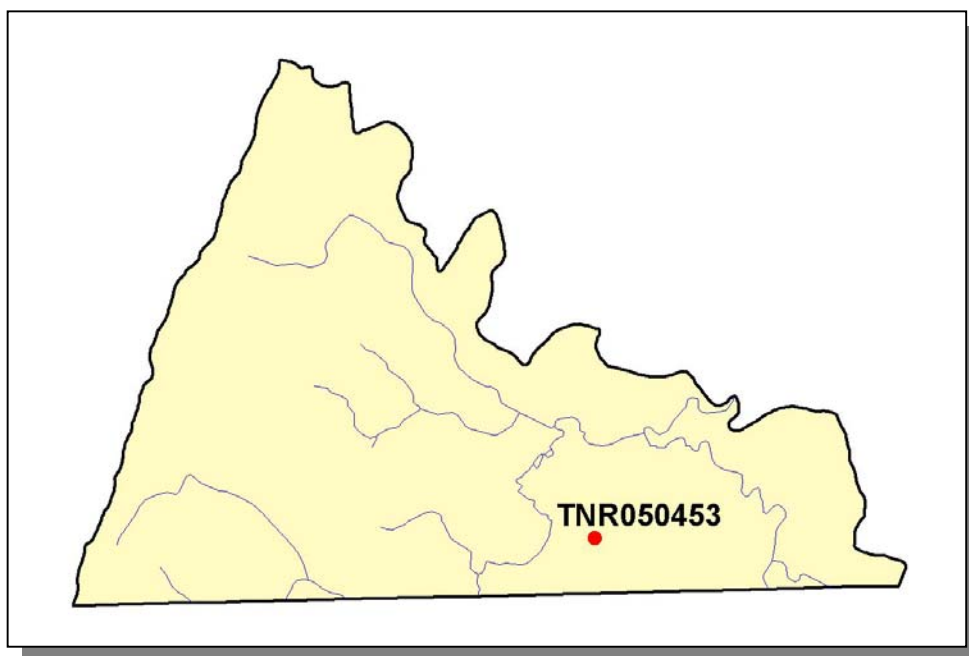


**Figure 4-103. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060200010803.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

**4.2.C.iii.a. Point Source Contributions.**



**Figure 4-104. Location of Permits Issued in Subwatershed 060200010803.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-105. Location of TMSP Sites in Subwatershed 060200010803.** More information, including the names of facilities, is provided in Appendix IV.



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**4.2.C.iii.b. Nonpoint Source Contributions.**

LIVESTOCK COUNTS				
Beef Cow	Cattle	Milk Cow	Chickens (Broilers Sold)	Hogs
27	59	<5	6,782	<5

**Table 4-87. Summary of Livestock Count Estimates in Subwatershed 060200010803.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

LIVESTOCK COUNTS							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Hamilton	6,913	14,734	801	30	934,564	1,017	109

**Table 4-88. Summary of Livestock Count Estimates in Hamilton County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

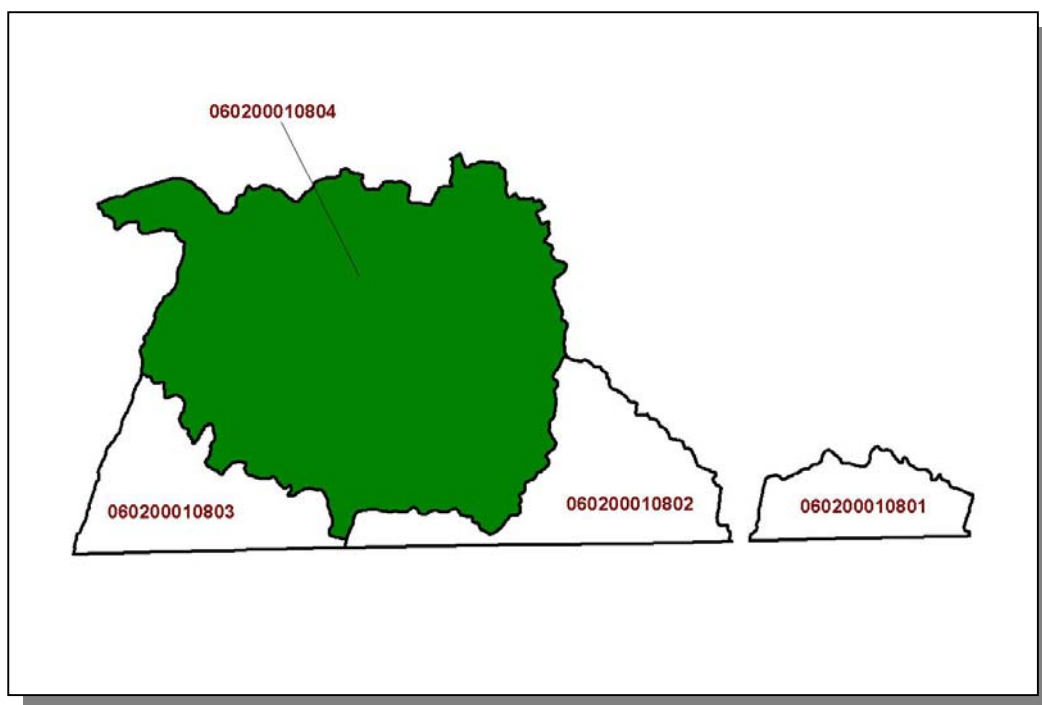
County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Hamilton	210.7	210.7	2.2	6.0

**Table 4-89. Forest Acreage and Annual Removal Rates (1987-1994) in Hamilton County.**

CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.07
Grass (Pastureland)	0.32
Grass (Hayland)	1.99
Legumes, Grass (Hayland)	0.20
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	5.28
Soybeans (Row Crops)	7.64
Oats (Close-Grown Cropland)	3.13
Wheat (Close-Grown Cropland)	3.14
All Other Close-Grown Cropland	1.99
Other Cropland not Planted	0.48
Other Land in Farms	0.21
Farmsteads and Ranch Headquarters	0.27

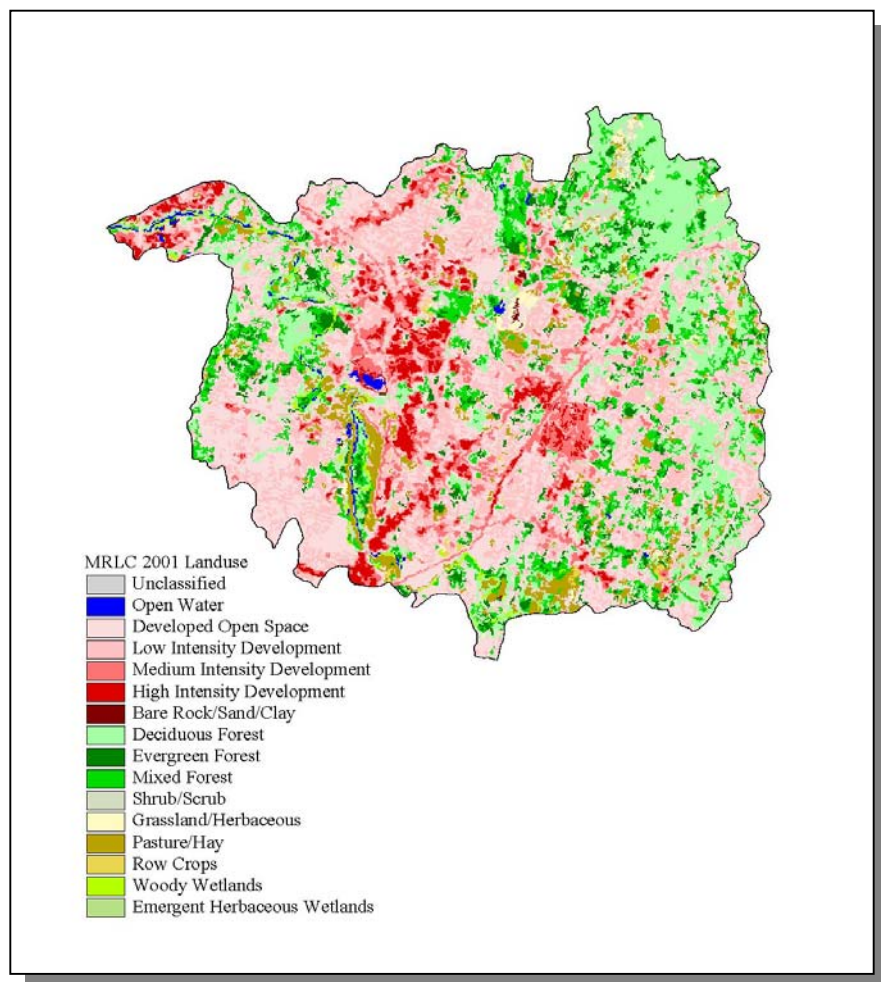
**Table 4-90. Annual Estimated Total Soil Loss in Subwatershed 060200010803.**

**4.2.C.iv. 060200010804 (South Chickamauga Creek).**

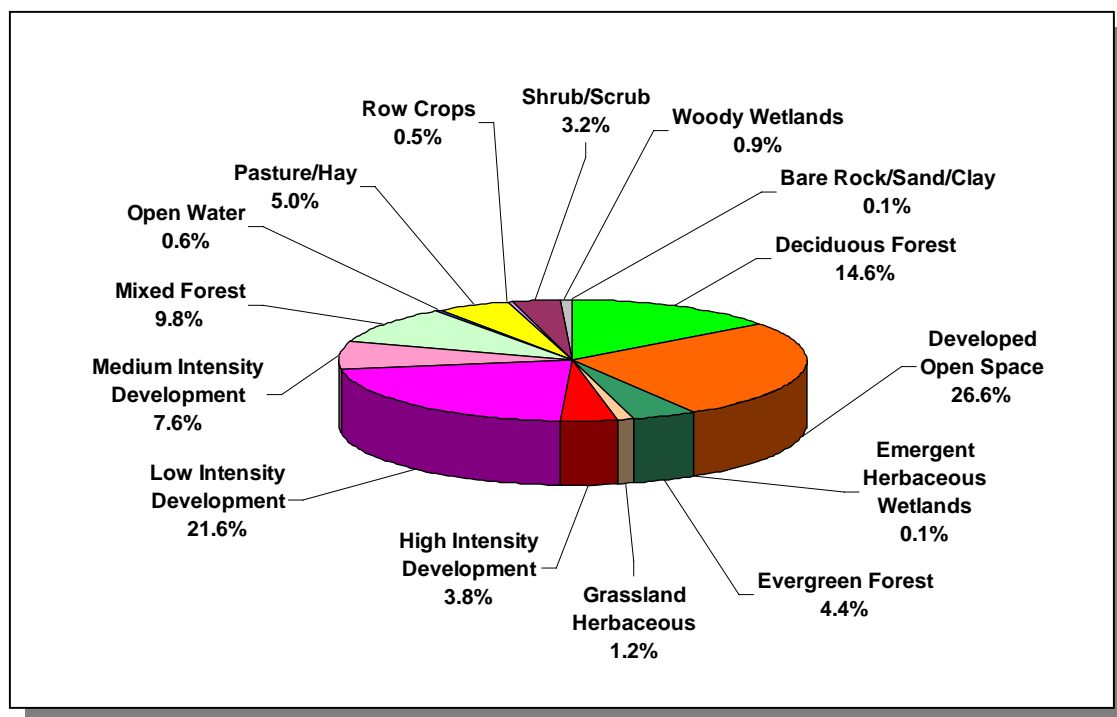


**Figure 4-106. Location of Subwatershed 060200010804.** All Group 4 Lower Tennessee River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

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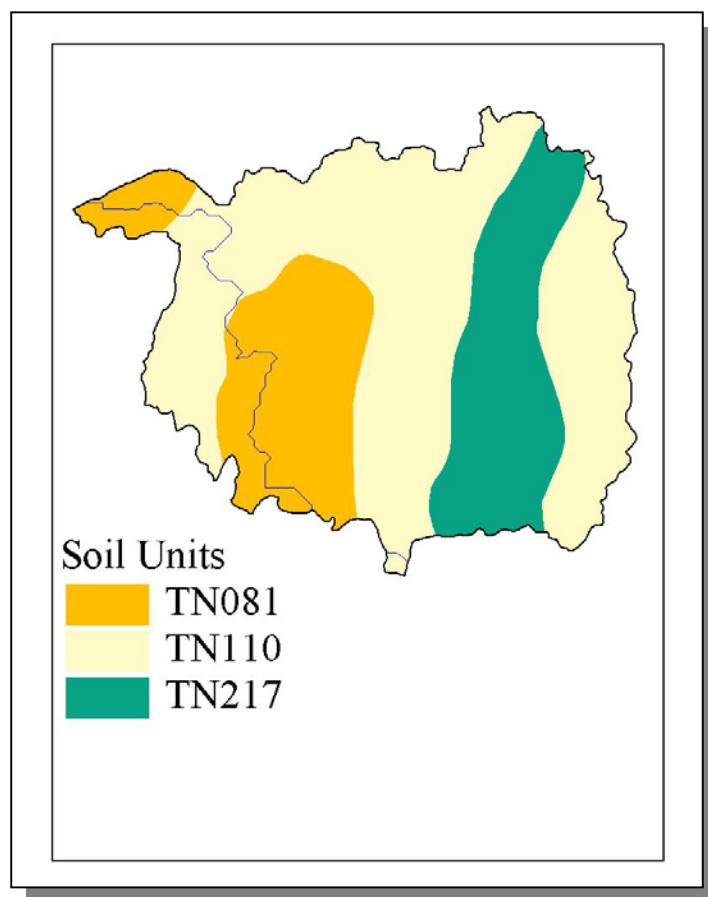


**Figure 4-107. Illustration of Land Use Distribution in Subwatershed 060200010804.**



**Figure 4-108. Land Use Distribution in Subwatershed 060200010804.** More information is provided in Appendix IV.

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**Figure 4-109. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010804.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN081	5.00	C	1.41	5.48	Silty Loam	0.35
TN110	0.00	B	2.22	4.96	Loam	0.31
TN217	0.00	C	2.34	5.32	Loam	0.35

**Table 4-91. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 060200010804.** The definition of "Hydrologic Group" is provided in Appendix IV.

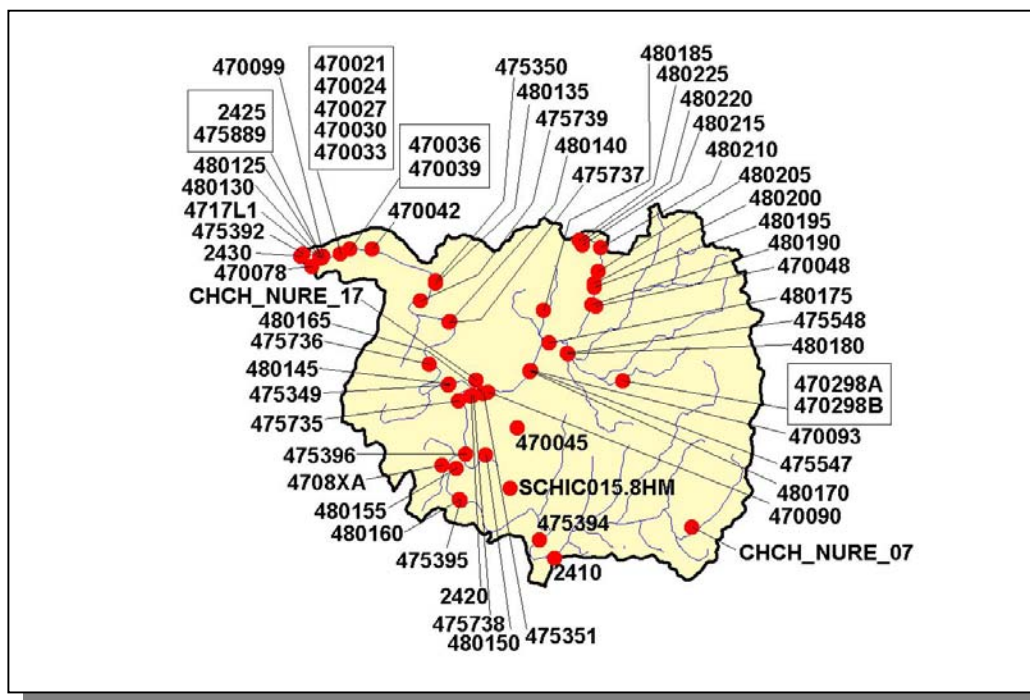
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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Hamilton	285,536	294,865	307,896	8.68	24,784	25,594	26,725	7.8

*Table 4-92. Population Estimates in Subwatershed 060200010804.*

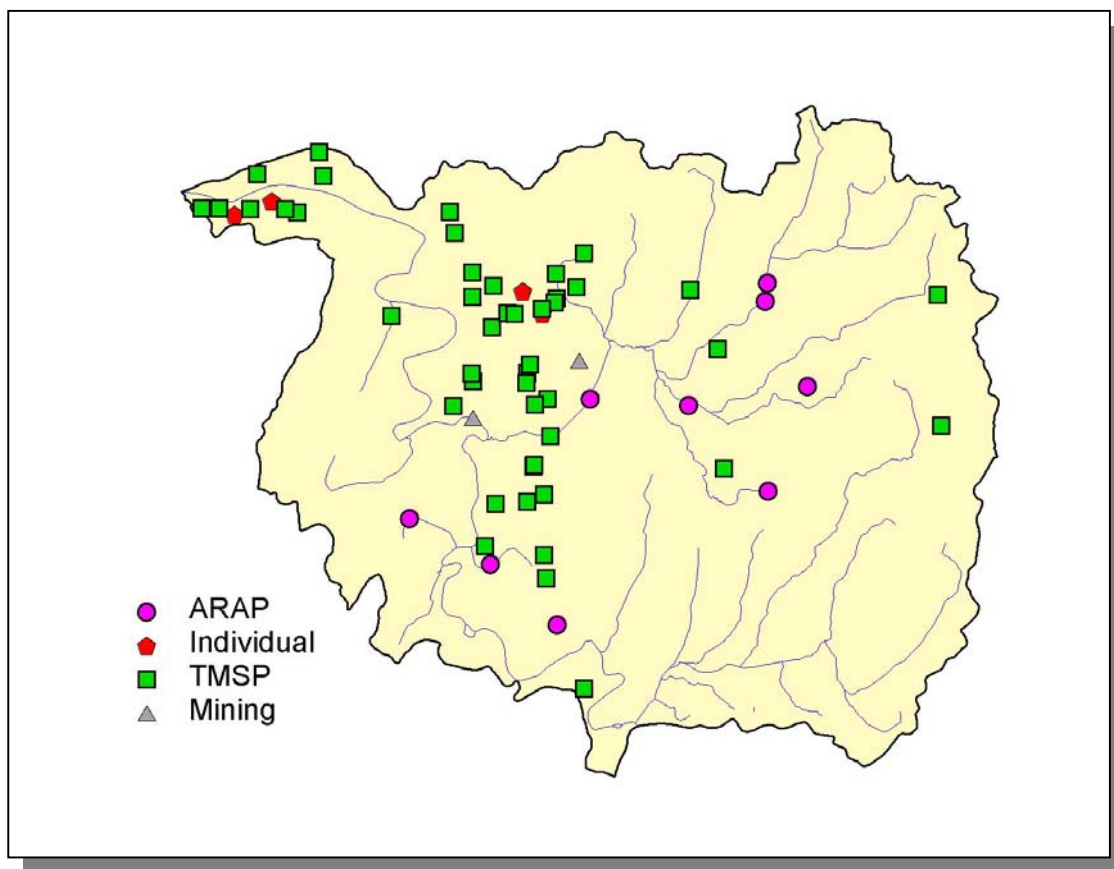


**Figure 4-110. Location of Historical Streamflow Data Collection Sites in Subwatershed 060200010804.** More information is provided in Appendix IV.



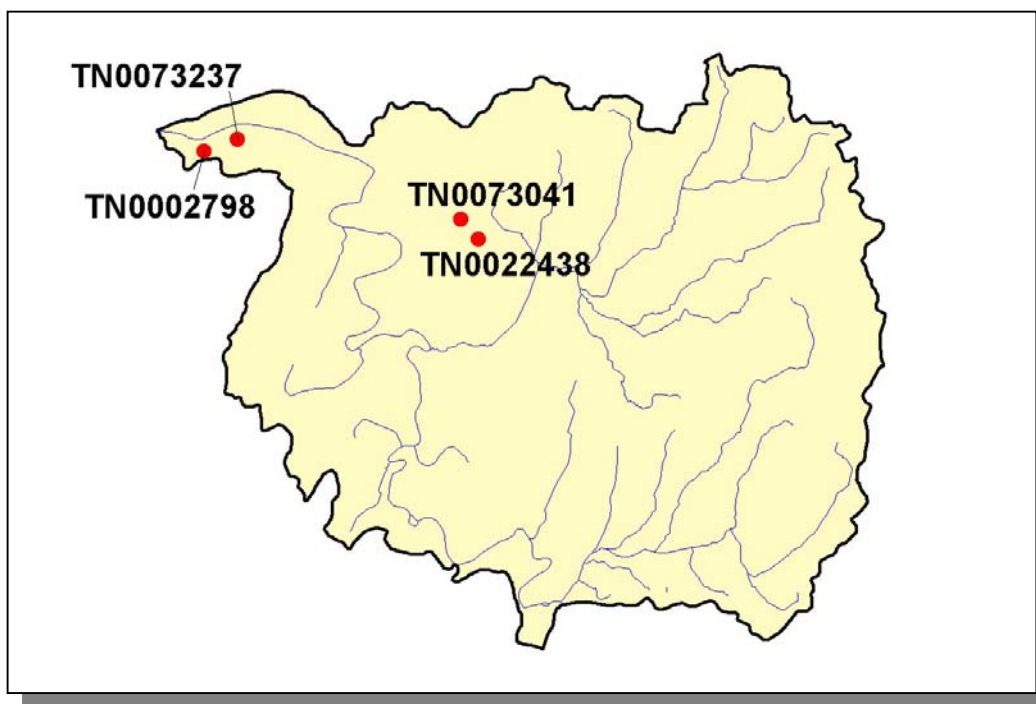
**Figure 4-111. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 060200010804.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

**4.2.C.iv.a. Point Source Contributions.**

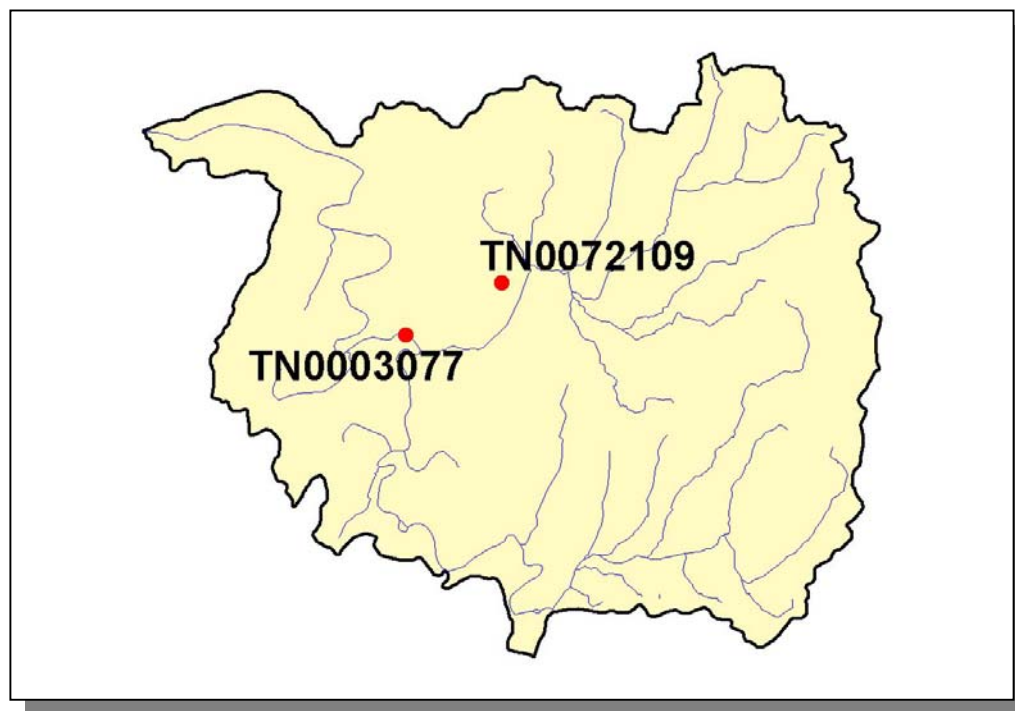


**Figure 4-112. Location of Permits Issued in Subwatershed 060200010804.** More information, including the names of facilities, is provided in Appendix IV.



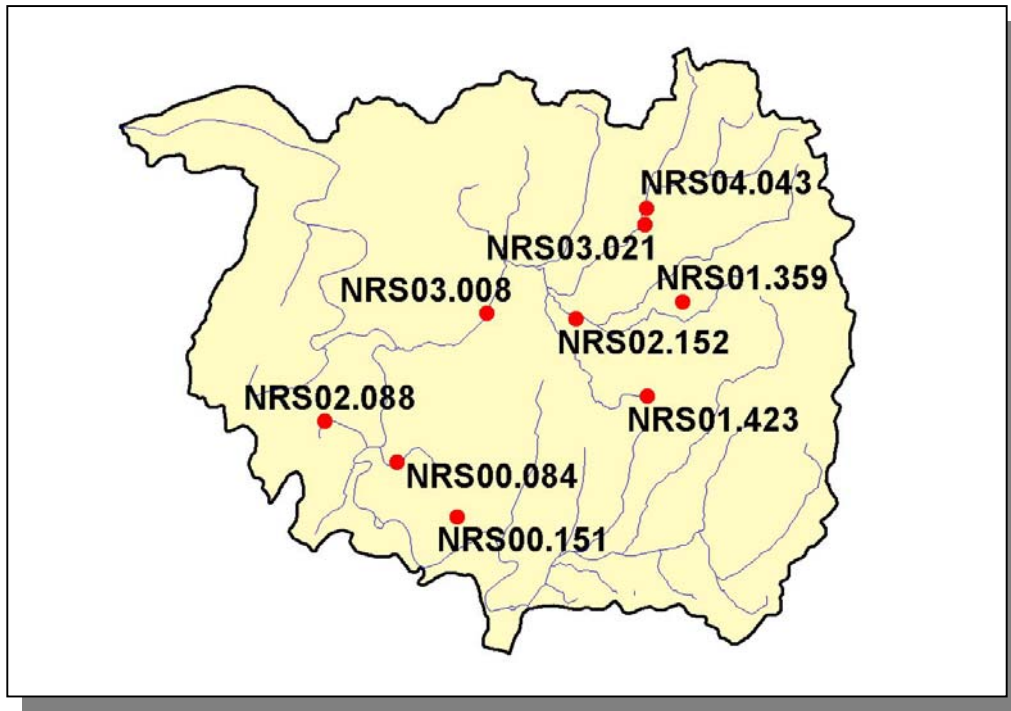


**Figure 4-113. Location of Active NPDES Sites in Subwatershed 060200010804.** More information, including the names of facilities, is provided in Appendix IV.

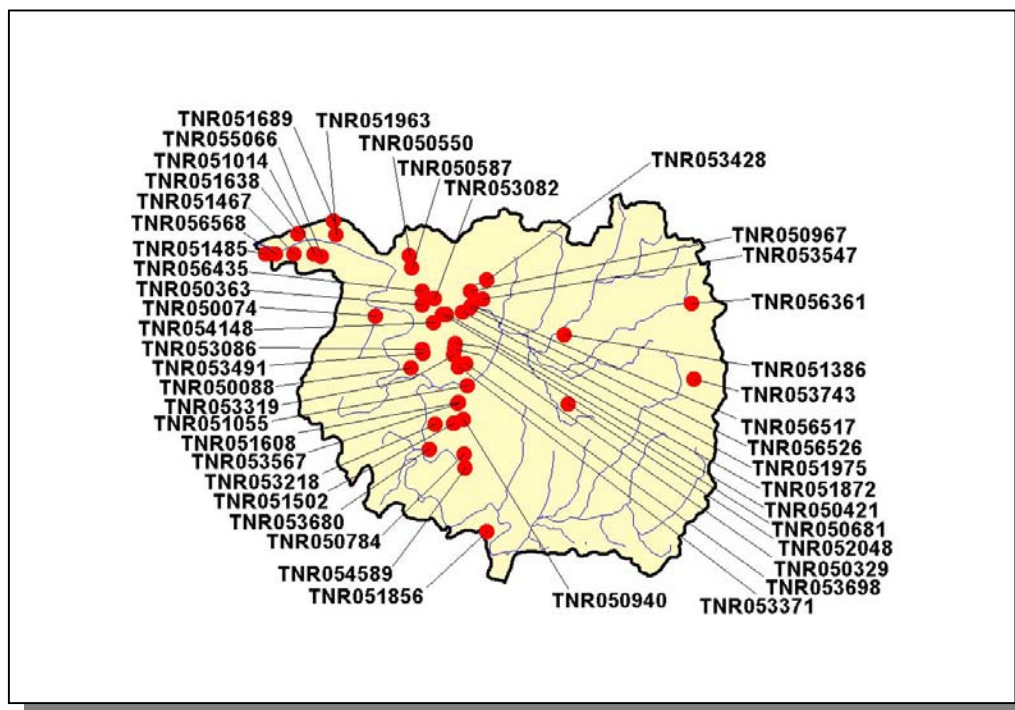


**Figure 4-114. Location of Active Mining Sites in Subwatershed 060200010804.** More information, including the names of mining operations, is provided in Appendix IV.

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**Figure 4-115. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 060200010804.** More information is provided in Appendix IV.



**Figure 4-116. Location of TMSP Sites in Subwatershed 060200010804.** More information, including the names of facilities, is provided in Appendix IV.

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**4.2.C.iv.b. Nonpoint Source Contributions.**

<b>LIVESTOCK (COUNTS)</b>						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
324	690	38	<5	43,781	48	5

**Table 4-93. Summary of Livestock Count Estimates in Subwatershed 060200010804.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

<b>LIVESTOCK COUNTS</b>							
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens (Broilers Sold)	Hogs	Sheep
Hamilton	6,913	14,734	801	30	934,564	1,017	109

**Table 4-94. Summary of Livestock Count Estimates in Hamilton County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	<b>INVENTORY</b>		<b>REMOVAL RATE</b>	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Hamilton	210.7	210.7	2.2	6.0

**Table 4-95. Forest Acreage and Annual Removal Rates (1987-1994) in Hamilton County.**

<b>CROPS</b>	<b>TONS/ACRE/YEAR</b>
Legumes (Pastureland)	0.07
Grass (Pastureland)	0.34
Grass (Hayland)	2.33
Legumes, Grass (Hayland)	0.20
Grass, Forbs, Legumes (Mixed Pasture)	0.27
Corn (Row Crops)	5.28
Soybeans (Row Crops)	7.48
Oats (Close-Grown Cropland)	3.13
Wheat (Close-Grown Cropland)	3.14
All Other Close-Grown Cropland	1.99
Other Cropland not Planted	0.48
Farmsteads and Ranch Headquarters	0.10

**Table 4-96. Annual Estimated Total Soil Loss in Subwatershed 060200010804.**